

WHAT IS CLAIMED IS:

1. A base station apparatus, comprising:
a plurality of connectors used for connection to a plurality of
antennas respectively;
a plurality of transmission/reception circuits performing
5 transmission/reception using said plurality of antennas; and
an antenna switching unit provided between said plurality of
connectors and said plurality of transmission/reception circuits and
modifying a connection relation between said plurality of connectors and
said plurality of transmission/reception circuits.

10 2. The base station apparatus according to claim 1, wherein
said plurality of antennas are divided into a plurality of groups, a
number of which is equal to a number of said plurality of
transmission/reception circuits,

5 said base station apparatus further comprises a control unit, and
when said antenna switching unit is at a initial state, said control
unit obtains properties of said plurality of antennas via said plurality of
connectors, determines to which of said plurality of groups each of said
plurality of antennas should belong, based on said obtained properties, and
10 causes a state of said antenna switching unit to make a transition from
said initial state to a use state suitable for use.

3. The base station apparatus according to claim 2, wherein
said control unit includes
a transmission circuit transmitting a test radio wave using one of
said plurality of antennas connected to one of said plurality of connectors as
5 a transmission antenna,
a reception circuit receiving said test radio wave using antennas
other than said transmission antenna among said plurality of antennas as
a reception antenna,
a recording circuit extracting and recording information from

- 10 reception signals of said test radio waves for each of said plurality of
antennas from said reception circuit,
a selection control circuit giving an instruction to said antenna
switching unit to sequentially switch a connector to be connected to said
transmission circuit among said plurality of connectors, and
15 a control circuit presuming antenna arrangement from said
information recorded on said recording circuit and determining setting for
said use state of said antenna switching unit.
4. The base station apparatus according to claim 2, wherein
said plurality of antennas are connected to a plurality of elements
respectively, the plurality of elements having properties different from each
other, corresponding to arrangement positions,
5 said control unit includes
a measurement circuit measuring said properties of each of said
plurality of elements via said plurality of connectors, and
a control circuit presuming antenna arrangement based on a
measurement result of said measurement circuit and determining setting
10 for said use state of said antenna switching unit.
5. The base station apparatus according to claim 4, wherein
said plurality of elements are resistance elements.